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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/813,217	03/30/2004	Donald R. Snow JR.	6000500-1010	3851
26263	7590 08/29/2006		EXAMINER	
SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080			HOPKINS, ROBERT A	
	CKER DRIVE STATION, SEARS TOWER		ART UNIT	PAPER NUMBER
CHICAGO, IL 60606-1080			1724	<u>-</u>
			DATE MAILED: 08/29/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/813,217	SNOW, DONALD R.		
		Examiner	Art Unit		
		Robert A. Hopkins	1724		
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHI0 - Exte after - If N0 - Failu Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE on time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	N. nely filed the mailing date of this communication.		
Status					
1)⊠	Responsive to communication(s) filed on 15 Au	ugust 2006.			
2a)⊠	a)⊠ This action is FINAL . 2b) This action is non-final.				
3)□	,— The state of th				
)	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposit	ion of Claims				
5)⊠ 6)⊠ 7)□	Claim(s) 1-21 and 46 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw Claim(s) 1-21 is/are allowed. Claim(s) 46 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicat	ion Papers				
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority (under 35 U.S.C. § 119				
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage		
2) Notic 3) Infon Pape	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 46 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Jones(6729359).

Jones teaches an inert gas generating system for generating inert gas on a vehicle having a fuel tank, the system comprising an inlet for receiving a flow of gas having a nitrogen component and an oxygen component from a gas source, a heat exchanger downstream from the inlet and in fluid communication with the inlet for cooling gas received from the inlet, and a gas separation module(18) downstream from the heat exchanger and in fluid communication with the heat exchanger for separating gas received from the heat exchanger into a nitrogen enriched gas flow and an oxygen enriched gas flow, the gas separation module being adapted to generate a flow rate of the nitrogen enriched gas flow of about 40 pounds per minute with an oxygen content less than or equal to about 9.8 percent by volume.

Allowable Subject Matter

Claims 1-21 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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Amended claims 1 and 18 include subject matter which was persuasively argued by applicant as overcoming the claim rejections to Jones. Claims 2-17 depend on claim 1 and hence are also allowed. Claims 19-21 depend on claim 18 and hence are also allowed.

Response to Arguments

Applicant's arguments filed 8-15-06 with regards to claim 46 have been fully considered but they are not persuasive.

Applicant argues Jones does not disclose a gas separation module adapted to generate a flow rate of the nitrogen-enriched gas flow of about 40 pounds per minute. Applicant argues the reference discloses a module adapted to generate a nitrogen-enriched gas flow only as high as four pounds per minute, and moreover there is no motivation for modifying the disclosed module to increase the flow rate 1000 percent.

Examiner notes page 13 of the current specification recites "In one embodiment, the inert gas system 50 illustrated in Figs. 3 and 4 delivers a multiplicity of flow rates ranging from about 1 pound per minute(lb/min) to about 40 lb/min, and each unique flow rate has an oxygen concentration of less than about 9.8 percent by volume". Examiner also notes that the gas separation module in one embodiment can be a membrane type separator. Examiner notes column 3 lines 10-15 of Jones recites "ASM 18 provides a total flow in the range of approximately 2-4 lbs/min. Depending on aircraft requirements or other system limitations, other sizes of ASM may be selected. Using conventional hollow-fiber technology, ASM 18 separates the air into oxygen-enriched air(OEA) and nitrogen-enriched air(NEA)." Therefore, examiner respectfully submits that because

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the gas separation module of the current invention and Jones are both membrane type separators, and the current specification states that the flow rates range from about 1 pound/min to about 40lb/min, then the membrane separator for ASM of Jones also generates a flow rate of nitrogen enriched gas of about 40 pounds per minute.

Examiner notes that since the claim is directed to a structure, then the structure only needs to be capable of generating the required flow rate for anticipation. As noted, because the gas separation module of the current invention is the same type of separator(membrane) as the gas separation module of Jones, and applicant states that the flow rate has a range up to 40lb/min, then the claim is anticipated because the gas separation module of Jones is clearly adapted to generate a flow rate of nitrogen enriched gas flow of about 40 pounds per minute.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Thursday, 7:30am-5pm, every Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rah August 22, 2006 ROBERT A. HOPKINS PRIMARY EXAMINER